



ISSUE 11; August 2014 - RoHS 2011/65/EU

**Description**

- Industry standard package
- Suitable for real time clock applications
- Plastic encapsulated

**Frequency Parameters**

- Frequency 32.768kHz
- Frequency Tolerance  $\pm 20.00$ ppm
- Ageing  $\pm 5$ ppm max per year @ 25°C

**Electrical Parameters**

- Load Capacitance (CL) 6.0pF to 12.5pF
- Shunt Capacitance (C0) 1pF typ
- Drive Level 1.0µW max

**Operating Temperature Ranges**

- 40 to 85°C

**Environmental Parameters**

- Operable Temperature Range: -40 to 85°C
- Storage Temperature Range: -55 to 125°C
- Drop: 75cm drop (3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-60Hz, 2-3mins in 3 mutually perpendicular planes, duration 2hrs each plane

**Ordering Information**

- Frequency\*
- Model\*
- Tolerance @25°C
- Load Capacitance\*
- Example  
32.768kHz 91SMX  
20/-/12.5

**Compliance**

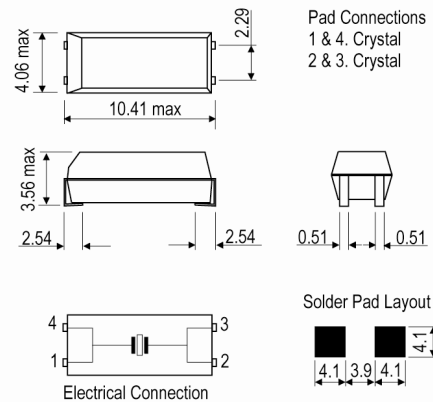
- RoHS Status Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

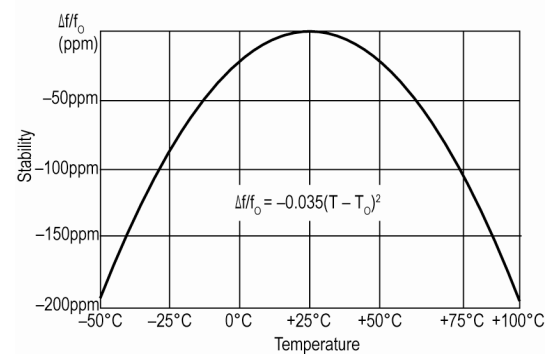
- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 2,000
- Pack Style: Cutt In tape, cut from a reel  
Pack Size: 1



**Outline (mm)**



**Typical Frequency Stability Characteristics**



**Sales Office Contact Details:**

UK: +44 (0)1460 270200  
Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18  
USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)  
Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)



**Electrical Specification - maximum limiting values**

<b>Frequency</b>	<b>Temperature Range</b>	<b>Stability (min)</b>	<b>Over Tone Order</b>	<b>ESR</b>
	°C	ppm		Ω
32.768000kHz	-40 to 85	-	Fundamental	50,000

---

**Sales Office Contact Details:**

UK: +44 (0)1460 270200

Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18

USA: +1 408.273.4530

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)